

Food and Drug Administration 10903 New Hampshire Avenue Document Control Center - WO66-G609 Silver Spring, MD 20993-0002

July 6, 2016

Dave Yungvirt Third Party Review Group, LLC (TPRG) The Old Station House 24 Lackawanna Place Millburn, NJ 07041

Re: K161314

Trade/Device Name: Flexicare FL-9000U Respiratory Humidifier Base

Regulation Number: 21 CFR 868.5450

Regulation Name: Respiratory gas humidifier

Regulatory Class: Class II

Product Code: BTT Dated: June 16, 2016 Received: June 17, 2016

Dear Dave Yungvirt:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration. Please note: CDRH does not evaluate information related to contract liability warranties. We remind you, however, that device labeling must be truthful and not misleading.

If your device is classified (see above) into either class II (Special Controls) or class III (PMA), it may be subject to additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the <u>Federal Register</u>.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to: registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); medical device reporting (reporting of medical device-

related adverse events) (21 CFR 803); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR Part 807.97). For questions regarding the reporting of adverse events under the MDR regulation (21 CFR Part 803), please go to

http://www.fda.gov/MedicalDevices/Safety/ReportaProblem/default.htm for the CDRH's Office of Surveillance and Biometrics/Division of Postmarket Surveillance.

You may obtain other general information on your responsibilities under the Act from the Division of Industry and Consumer Education at its toll-free number (800) 638-2041 or (301) 796-7100 or at its Internet address

http://www.fda.gov/MedicalDevices/ResourcesforYou/Industry/default.htm.

Sincerely yours,

Tejashri Purohit-Sheth, M.D.

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Clinical Deputy Director
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Erin I. Keith, M.S.
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Enclosure

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration

Indications for Use

E10/k) Number (if known)

Form Approved: OMB No. 0910-0120 Expiration Date: January 31, 2017 See PRA Statement below.

K161314	
Device Name Flexicare FL-9000U Respiratory Humidifier Base	
ndications for Use (Describe)	
The Flexicare FL-9000U Respiratory Humidifier Base is intendrequiring mechanical ventilation or positive pressure breathing by trained personnel only within a hospital/institutional environ Flexicare Heated Wire Breathing System and Flexicare Autofil	assistance via an endotracheal tube or face mask. For use nment. This device is intended to be used only with the
Type of Use (Select one or both, as applicable)	
Prescription Use (Part 21 CFR 801 Subpart D)	Over-The-Counter Use (21 CFR 801 Subpart C)
PLEASE DO NOT WRITE BELOW THIS LINE - C	ONTINUE ON A SEPARATE PAGE IF NEEDED.
FOR FDA U	SE ONLY
Concurrence of Center for Devices and Radiological Health (CDRH) ((Signature)

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510(k) Summary

510(k) Sponsor, Contact Person and Date Summary Prepared:

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Compliance Engineer

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Summary prepared on: July 4th, 2016

Device Name:

Trade Name: Flexicare FL-9000U Respiratory Humidifier Base

Common/Usual Name: Respiratory Gas Humidifier

Classification Name: Respiratory Gas Humidifier: 21 CFR 868.5450

Product Codes: BTT (Respiratory Gas Humidifier)

There have been no prior submissions for the device included within this submission.

Legally Marketed Equivalent Device:

FL-9000U Respiratory Humidifier Base is substantially equivalent to Fisher & Paykel's MR850 Respiratory Humidifier cleared under K073706.

Device Description:

The Flexicare FL-9000U Respiratory Humidifier Base is for use as part of a complete system to provide warmed and humidified inspired respiratory gases to ventilated adult patients and those receiving respiratory support, as part of a complete system including a Humidification Chamber and either a heated wire breathing circuit or limb, or a non-heated breathing circuit or limb.

The Flexicare FL-9000U Respiratory Humidifier Base is a non-sterile medical electrical device which when in use forms part of an actively humidified respiratory humidification system. The Flexicare FL-9000U features a heater plate that allows a humidification chamber containing a volume of water to secure in place above it. The Flexicare FL-9000U heats the water within a humidification chamber and provides current to heated wires within Heated Wire Breathing System (if using a heated system) to warm and humidify gases to be administered to the patient. The Flexicare FL-9000U Respiratory Humidifier Base is provided with temperature probe leads that connect to the patient end and humidification chamber end of a breathing system. These probes feedback to the FL-9000U which automatically adjusts heat and current accordingly to maintain the set gas temperature.

When in use the Flexicare FL-9000U Respiratory Humidifier Base has no contact with the patient. The probe tip of the temperature probe lead accessory contacts breathing gases that

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are to be delivered to the patient and is the only component of the device/its accessories with contact of this nature.

The Flexicare FL-9000U Respiratory Humidifier Base is mains powered (115V), intended for use within a hospital environment and intended for any patient population where active humidification is required.

Intended	Use:	
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The Flexicare FL-9000U Respiratory Humidifier Base is intended to warm and add humidity to gases delivered to patients requiring mechanical ventilation or positive pressure breathing assistance via an endotracheal tube or face mask. For use by trained personnel only within a hospital/institutional environment. This device is intended to be used only with the Flexicare Heated Wire Breathing System and Flexicare Autofill Humidification Chamber.

Substantial	Equivalence:
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Flexicare's FL-9000U Respiratory Humidifier Base has the same intended use as the predicate device, Fisher & Paykel's MR850 Respiratory Humidifier. Flexicare's FL-9000U Respiratory Humidifier Base and the predicate device are reusable medical electrical devices. Supplied in one variation for all patient populations.

Neither manufacturer's devices are life supporting or life sustaining.

Patient Contact: – FL-9000U Respiratory Humidifier Base has no contact with the patient. The Temperature probe lead accessory contacts breathing gases that are to be delivered to the patient (externally communicating). The material of this component has been subject to biocompatibility testing, and amounts to only 0.02% of total surface area when used in conjunction with an Adult Heated Wire Breathing System.

Flexicare's FL-9000U Respiratory Humidifier Base and the predicate devices by Fisher & Paykel both include one component that has gas pathway contact – the temperature probe present on supplied temperature probe lead.

Flexicare's FL-9000U Respiratory Humidifier Base and the predicate devices by Fisher & Paykel both require software to operate/function.

Flexicare's FL-9000U Respiratory Humidifier Base and the predicate devices by Fisher & Paykel are both electronically powered devices (115V).

Flexicare's FL-9000U Respiratory Humidifier Base and the predicate devices by Fisher & Paykel are both supplied non-sterile.

Both manufacturers' devices are able to be used with industry standard devices such as humidification chambers and breathing systems.

Flexicare's FL-9000U Respiratory Humidifier Base and the predicate devices by Fisher & Paykel are both are designed for the same intended use in the same intended conditions. During comparison testing it was determined that there were no invasive components in either of the manufacturer's devices.



Both manufacturers' device's feature an LCD display, depressible front lip to secure a humidification chamber, invasive/non-invasive mode selecting button, are mains powered (115v) and are supplied with cables to connect to a Heated Wire Breathing System. Both manufacturers' device's feature a polycarbonate based rigid housing.

Both manufacturers' device's feature a fixed US mains (115V) power cable and plug.

The housing of Flexicare's FL-9000U Respiratory Humidifier Base is beige, with remaining components being white or grey. Labelling on device housing is blue and white in-line with Flexicare branding.

Any differences in color between the Flexicare device and the predicate device is by manufacturer's aesthetics choice/ branding, and is not related to intended use or performance of device.

Both manufacturer's devices are supplied with a mains power cable, single heated wire adaptor lead, dual heated wire adaptor cable and a temperature probe lead to connect to a single or dual Heated Wire Breathing System.

Both Flexicare's FL-9000U Respiratory Humidifier Base and the predicate device can be used with Dual Heated Wire Breathing Systems, Single Heated Wire Breathing Systems and Non- Heated Wire Breathing Systems in both invasive and non-invasive modes.

Neither manufacturer's devices are in vitro diagnostic devices.

<u>Accessories</u>

Flexicare's FL-9000U Respiratory Humidifier Base is supplied with the following compatible accessories:

- FL9000-01U Single Heated Wire Adaptor Lead; the Single Heated Wire Adaptor Lead is used to supply electrical current from the FL-9000U Respiratory Humidifier Base to a Single Heated Wire Breathing System (if a heated breathing system is used).
- FL9000-02U Dual Heated Wire Adaptor Lead; the Dual Heated Wire Adaptor Lead is
 used to supply electrical current from the FL-9000U Respiratory Humidifier Base to a
 Dual Heated Wire Breathing System (if a heated breathing system is used).
- FL9000-03U Temperature Probe Lead; the Temperature Probe Lead is used to
 monitor the temperature at the chamber and at the patient end of the breathing
 system. Temperature measurements are fed back to the FL-9000U Respiratory
 Humidifier Base which automatically adjusts output accordingly to maintain the
 temperature within the breathing system at the set parameters.

Flexicare's FL-9000U Respiratory Humidifier Base is compatible with, yet not supplied with, the following accessories:

Flexicare Heated Wire Breathing Systems. Cleared under K150900



• Flexicare Autofill Humidification Chambers. Cleared under K150900 Substantial equivalence comparison table – Respiratory Humidifier

Flexicare's FL-9000U Respiratory Humidifier Base is substantially equivalent to MR850 Respiratory Humidifier manufactured by Fisher & Paykel (510(k) K073706).

The Table below shows the similarities and differences between Flexicare's FL-9000U Respiratory Humidifier Base and the predicate device manufactured by Fisher & Paykel.



Characteristic compared	Flexicare's FL-9000U Respiratory	Fisher & Paykel MR850 Respiratory Humidifier
•	Humidifier	
510K	K: Unknown	K:073706
Device Description	FL-9000 is a Dual Servo Controlled	MR850 is a Dual Servo Controlled Heated
	Heated Respiratory Humidifier,	Respiratory Humidifier,
	controlling both Airway & Chamber	controlling both Airway & Chamber temp
	temp	
Intended use	The Flexicare FL-9000U Respiratory	The Fisher & Paykel Healthcare MR850
	Humidifier Base is intended to	humidifier is intended to be used to warm and
	warm and add humidity to gases	add humidity to gases delivered to patients
	delivered to patients requiring	requiring mechanical ventilation or positive
	mechanical ventilation or positive	pressure breathing assistance or general medical
	pressure breathing assistance via	gases.
	an endotracheal tube or face mask.	The heated-wire breathing circuits are intended
	For use by trained personnel only	as conduits of breathing gas for ventilation of
	within a hospital/institutional	patients, and to maintain the temperature of
	environment. This device is	humidified inspired gas, to reduce condensation.
	intended to be used only with the	They are accessories for the Fisher & Paykel
	Flexicare Heated Wire Breathing	Healthcare MR850 Respiratory Gas Humidifier.
	System and Flexicare Autofill	The RT130 is used for flow rates between 0.3 and
	Humidification Chamber.	4 L/min, and the RT131 is for flow rates greater
		than 4 L/min, for neonatal patients.
		Source: Fisher & Paykel K073706 clearance letter.
Principle of operation	The device has two heating control	The device has two heating control units and two
	units and two temperature sensors	temperature sensors respectively. Water within a
	respectively. Water within a	humidification chamber is heated by the device's
	humidification chamber is heated	heating plate and this temperature is controlled
	by the device's heating plate and	by the device with the use of temperature
	this temperature is controlled by	probes. Dry medical gases passing through the
	the device with the use of	chamber gain increased humidity and heat. The
	temperature probes. Dry medical	supplied Heated wire adaptors supply current to
	gases passing through the chamber	heated wires within breathing tubes that
	gain increased humidity and heat.	maintain gas temperature travelling to patient.
	The supplied Heated wire adaptors	Temperature probes measurement temperature
	supply current to heated wires	and device controls chamber temperature to
	within breathing tubes that	achieve desired gas warmth and humidify for
	maintain gas temperature	patient.
	travelling to patient. Temperature	
	probes measurement temperature	
	and device controls chamber	
	temperature to achieve desired gas	
	warmth and humidify for patient.	
Structure and operation	The product consists of FL-9000U	The product consists of MR850 Respiratory
	Respiratory humidifier, Heated	humidifier, Heated wire adaptor leads (single &
	wire adaptor leads (single & dual)	dual) and Temperature sensor leads.
	and Temperature sensor leads.	
	i e	1



Mode of one	oration	Device does not have patient	Device does not have patient contact. During use	
Mode of operation		contact. During use it is located	it is located between the ventilator and breathing	
		between the ventilator and	system (between ventilator and patient).	
		breathing system (between	system (between ventuator and patient).	
		ventilator and patient).		
Scope of pat	tiont	Device intended for patients	Device intended for patients requiring	
Scope of par	lient	requiring mechanical ventilation,	mechanical ventilation, positive pressure	
		positive pressure breathing	breathing support or other respiratory support	
		support or other respiratory	requiring controlled heat and humidity	
		support of other respiratory support requiring controlled heat	requiring controlled fleat and flumbury	
		and humidity		
Electric light	ning	Class I	Class I	
protection	uiiig	Class I	Class I	
Applied part	 t	Type B	Type B	
Drip proof	<u>-</u>	IPX 1	IPX 1	
Target popu	lation	Any patient requiring active	Any patient requiring active humidification	
. a. Bec beba		humidification	, and particularly active manners and	
Housing mat	terial	Polycarbonate	Polycarbonate	
Temp sensir	ng	YSI	YSI	
Heating Met	thod	Pass over	Pass over	
Heated Wire	e control on/off	Yes	Yes	
Single/dual/		Yes	Yes	
wire compat	tible			
Dimensions		156mm × 170mm × 130mm	140mm × 173mm × 135mm	
Weight		2.9kg	2.8kg	
Supply frequency		50/60 Hz	50/60 Hz	
Supply voltage		115V~	115V~	
Supply curre	ent	2.0 A max at 115V~	2.0 A max at 115V~	
Heater plate	9	150 W	150 W	
Heater plate		115 ± 3°C	118 ± 6°C	
temperature	e cutout			
Safety cutof	f software	110°C	110°C	
Heater Wire	2	22V~, 2.73A, 60W, 50/60Hz	22V~, 2.73A, 60W, 50/60Hz	
		Temperature control settings	s (heater wire)	
Airway	Invasive	Default: 40°C	Default: 40°C	
		Range: 36-40°C	Range: 35-40°C	
			(Versions 7.22)	
	Non-invasive	Default: 34°C	Default: 34°C	
		Range: 31-35°C	Range:28-34°C	
			(Versions 7.22)	
Chamber	Invasive	Default:	Default:	
outlet		Range: 34-40°C	Range: 35.5-42°C	
			(Versions 7.22)	
	Non-invasive	Default:	Default:	
		Range: 31-35°C	Range: 31-36°C	
			(Versions 7.22)	
	1	Temperature control settings (r		
Airway	Invasive	37°C (Range 36-38°C)	37°C	
Chamber	Non-invasive	31°C (Range 30-32°C)	31°C	
outlet				



Display	4 digit 14 mm		3 digit 14 mm		
	14 segment LED		7 segment LED		
Display range	05 - 80°C		10 - 70°C		
Accuracy	± 0.3°C			3°C	
		Alarm Paramete			
Alamana	High Humidity Alarm				
Alarm parameter	Airway: High alarm / Low alarm Chamber: High alarm / Low alarm		High Humidity Alarm		
Display temperature of	_		Low Humidity Alarm		
41°c	Yes		Yes		
Airway Temperature exceeds 43°C	Y	es	Ye	Yes	
		Low Humidity Ala	rm		
60 minutes @ 34.5 °C	Y	es	Ye	es	
10 minutes @ 29.5 °C	Y	es	Ye	es	
Sound Pressure Level	Alarms exceed	d 50 dBA @ 1m	Alarms exceed	50 dBA @ 1m	
	T	Performance			
Recommended ambient	18 -	26°C	18 -	26°C	
Temperature range		T			
Recommended Flow range	Invasive	Non-invasive	Invasive	Non-invasive	
	Up to 60 L/min	Up to 120 L/min	Up to 60 L/min	Up to 120 L/min	
IIidit			Report (NO. HSO-VH-2600A	· ·	
Humidity performance	Invasive	Non-invasive	Invasive	Non-invasive	
Warm un timo	>33mg/L	>10mg/L	>33mg/L	>10mg/L	
Warm-up time Standard and Approvals	Less than 30 minutes EN 60601-1:2006 Less than 30 minutes IEC 60601-1				
Standard and Approvais	EN 60601-1:20		EN 60601-1		
	EN 60601-1-2:2		IEC 60601-1-2		
	EN ISO 8185:20		EN 60601-1-2		
	EN ISO 10993-1 EN 62366:2008		EN ISO 8185:2009		
	EN 62304:2006				
	ISO 3744:2010				
	BS EN 60529:19				
Non-clinical Test Results		•	establish the safety and ef		
	•		Non-clinical tests included		
			plate capacity, heater wire		
	range, display accuracy, alarm parameters, sound pressure level, humidification output, Electromagnetic Capability, Electrical Safety and IPX 1 testing. Testing demonstrated that the relevant features, design and performance of each				
	manufacturer's device are substantially equivalent.				
Conclusion	Flexicare's FL-9000U Respiratory Humidifier Base is considered to be substantially				
	equivalent to the Fisher & Paykel MR850 Respiratory Humidifier. The comparison of				
	features, performance, materials and intended use demonstrate that Flexicare's FL- 9000U Respiratory Humidifier Base is as safe and effective as the predicate device for				
	its intended purpose.				
Accessories					
	Single	Heated Wire Ada	otor Lead		
Connector (Machine end)	4-Pin Connector		4-Pin Connector		
Connector (Patient end)	2 pin	S-type	2 pin S	S-type	
Type/configuration	Sin	igle	Sin	gle	



Supplied	Yes	Yes		
Dual Heated Wire Adaptor Lead				
Connector (Machine end)	4-Pin Connector 4-Pin Connector			
Connector (Patient end)	2 pin S-type 2 pin S-type			
	2 pin clover-type	2 pin clover-type		
Type/configuration	Dual	Dual		
Supplied	Yes	Yes		
Temperature Probe Lead				
Length	192 cm	207 cm		
Number of probes	2	2		
Probe location	Chamber, Patient end	Chamber, Patient end		
Function	Airway Temp./ Chamber Temp.	Airway Temp./ Chamber Temp. Measure		
	Measure			
Supplied	Yes	Yes		

Summary of performance Testing: Flexicare's FL-9000U Respiratory Humidifier Base has been evaluated in accordance with standards listed in table:

Test	Standard / Pre-Determined	Outcome
	Acceptance Criteria	
Dimensions & weight	Comparison test	Substantially equivalent
Power Supply voltage	Comparison test	Substantially equivalent
Power Supply frequency	Comparison test	Substantially equivalent
Power Supply current	Comparison test	Substantially equivalent
Heater plate capacity	Comparison test	Substantially equivalent
Heater Wire Supply Voltage	Comparison test	Substantially equivalent
Heater Wire Supply current	Comparison test	Substantially equivalent
Heater Wire Supply resistance	Comparison test	Substantially equivalent
Heater Wire Supply power	Comparison test	Substantially equivalent
Display range	Comparison test	Substantially equivalent
Display accuracy	Comparison test	Substantially equivalent
High humidity alarm parameters	Comparison test	Substantially equivalent
Low humidity alarm parameters	Comparison test	Substantially equivalent
Sound pressure level	Comparison test	Substantially equivalent
Cytotoxicity, Irritation, Sensitization,	10993-10:2010	Pass
Systemic Toxicity, Genotoxicity,	10993-5:2009	
Implantation & Sub-Acute Toxicity.	10993-3:2014	
	10993-6:2009	
Requirements for respiratory	ISO 8185:2009	Pass
humidification systems		
Electromagnetic capability &	BS EN 60601-1:2006	Pass
Electrical safety testing	BS EN 60601-1-2:2007	
	IEC 60601-1:2005	
	+CORR.1:2006 CORR. 2:2007	
Enclosure testing – IP rating (IPX1)	IEC 60529 Edition 2.2: 2013	Pass

Flexicare's FL-9000U Respiratory Humidifier Base has been evaluated for performance within K161314 with the compatible accessories noted in this 510(k) summary, including those supplied with the FL-9000U and those not supplied, cleared under K150900.



Consensus Standards

ISO 8185 and ISO 5356-1 are recognized consensus standards for devices classified through FDA product code BTT.

However, ISO 5356 (and its associated guidance documents) is not applicable to Flexicare's FL-9000U Respiratory Humidifier. ISO 5356 is the internationally recognized standard for conical connectors present within anesthetic and respiratory medical devices.

Neither Flexicare's FL-9000U Respiratory Humidifier, its supplied accessories nor the predicate device manufactured by Fisher & Paykel have conical connectors included within their designs.

Conical connectors are present on related equipment devices such as Humidification Chambers and Heated Wire Breathing Systems. However, in Flexicare's case these devices have been cleared separately under K150900, and are not supplied with the FL-9000U Respiratory Humidifier.

The MR850 predicate device manufactured by Fisher & Paykel is also not supplied with any related equipment that include conical connectors.

The Flexicare FL-9000U Respiratory Humidifier Base passed the performance testing when tested against methods and criteria from relevant FDA Recognized standards. The results of this testing show that The Flexicare FL-9000U Respiratory Humidifier Base passes all performance & safety tests and performs at least as well as the marketed predicate device.

Although very similar in design and function there are some differences, as described below, between the Flexicare FL-9000U Respiratory Humidifier Base and the predicate device from Fisher & Paykel.

Differences:

- The Flexicare FL-9000U Respiratory Humidifier Base has a 4 digit 14 segment LED display whilst the Fisher and Paykel device has a 3 digit 7 segment LED display. This does not cause an advantage in performance for Flexicare's device, but allows for more versatile/detailed display.
- The Flexicare FL-9000U Respiratory Humidifier Base has text definitions adjacent to LED warning lights that illuminate during fault conditions. This allows user to immediately understand the reason for alarm. The Fisher & Paykel MR850 does not have this text.
- The Flexicare FL-9000U Respiratory Humidifier Base also has an LED indicator with a symbol for "Refer to instructions for use" adjacent to it which illuminates also during fault conditions.
- Another difference between Flexicare's device and its predicate device from Fisher & Paykel is the color of the humidification chamber securing area at the top of the device, where Flexicare's is white in color and F&P's is light blue in color. However, these differences in color do not affect the safety and/or effectiveness of either manufacturer's devices and are due to individual company branding/marketing.

Conclusion: The overall conclusion from the comparison testing is that Flexicare's FL-9000U Respiratory Humidifier Base is considered to be substantially equivalent to that of the predicate device.